PROCEEDINGS

of the

PACIFIC COAST ENTOHOLOGICAL SOCIETY.

The 30th regular quarterly meeting of the Society was held on the evening of Nov. 21st, 1900, at the Hotel Manx. President Van Dyke in the Chair. Hinutes of the two pre-

ceding meetings were read and approved.

The following members were present:-

Edw. Ehrhorn Pres. Van Dyke Percy Baumberger J. G. Grundel F. W. Nunenmacher J. C. Huguenin Miss Julia Wright Dr. F. E. Blaisdell

James Cottle F. X. Williams Wm. H. Lange

Chas. Fuchs

Walter Topp

The following guests were present:-

Mrs. J. Cottle Dr. Carroll Fox

Mrs. F. E. Blaisdell

The Treasurer then read his report. Mr. J. Cottle reported his trip to Can Diego, stating that he took many Hemileuca electra. The males fly early and the females about 2 p.m. and deposited their eggs on the wilk Buckwheat (Eriogonum). He spoke of his enjoyable meeting with Fields and Ricksecher of San Diego; Prof. Fall, Dr. Fenyer and Grinnell, as well as Clemens, a Lepidopterist, all of Pasadena; Mr. W. S. Tright of Sar Bernardino.

Mr. Ehrhorn spoke on Horticultural Quarantine against insect pests. California first made laws in 1882. Fruit industry began to spread and the discovery of the Cottony Cushion scale (Icerya). The U. S. Entomologist appointed James Lick inspector, and also came to this Coast and worked on the above pest. An Australian parasite was discovered and they discovered decided to send Albert Koebele to get it and he brought back Novius cardinalis

(Coccinellidae).

The pernicious San Jose scale (Aspidiotus perniciosus) became severe on deciduous trees and plants, for 10 years a sheep dip was used to fight it. Parasites were discovered. About this time Quarantine was established and laws drawn up and officers appointed. All transportation Companies are obliged to notify the authorities upon their arrival with plants, etc. On steamers from the Orient the passengers have their baggage examined; if fruit is found it is destroyed; if plants, they are passed on and red-tagged; if infested they are either destroyed or funigated. In large shipments, as for nurseries and responsible persons, the shipments are allowed to be taken to the yards and there treated. Thether parasites are found or not the plants are fumigated before they are allowed to go. If the parties are not responsible, plants are treated before they are allowed to go from the Quarantine Station.

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In case of imported scales, - if it was not for the parasites the country would be over-run with them. There are no parasites known for the Red Scale (Aspidiotus aurantii) which is an Australian scale, and an expensive method of funigation is resorted to. An effort is being made to get parasites for all. The early settlers brought over our first pests. The Hessian Fly (Diplosis tritici) was first brought from Germany in straw.

The Elm Beetles (Galeruca xanthomelaena et calmariensis) are very destructive to the Elms in the east. One of the worst pests in California is the Codling 16th (Carpocapsa pomella). There was an exhibition in 1849 - 50 and a producer wanted to compare apples of California with those of the East. Eastern apples were brought in and were wormy and this is the history of the introduction of the Codling Moth. The Eucalyptus was raised from seed when that industry began. There are no pests for it, but in their native country - Australia - they are abundant, scales and borers. There is a growing demand for the wood, and care must be used or its pests will be introduced.

Hawaii is very careful about pests. The country most strict is Algiers. The Sea Coast is most protected, the interior less so; country borders are not protected and there is danger of

pests being brought in.

Mr. F. W. Nunenmacher stated that 600.00 of Mucalpotus seedlings had been brought in several years ago and as a result the parasites are here. He mentioned the Live Oak pest, Phryganidia Californica, and that it was extending its ravages to the Acacia, and was continually spreading. The pupa is light colored and that he considered it introduced. Ither members took exception to this view, considering it a native species.

Dr. Van Dyke stated that the spread is probably due to the fact that the small birds are being killed or driven off by the small boys with guns. In the Golden Gate Park where the birds are protected, the parasites are few; just beyond the Park limits the

Oak Trees are denuded.

Dr. Blaisdell stated that he had collected Phryganidia 30 years ago at Poway, San Diego Co., Calif. It there infested the Live Oak.

Dr. Carroll Fox ther gave an interesting talk on the

campaign against Fleas, as follows:-

The old classific tion of infectious diseases into contagious, non-contagious and miasmatic, or disease contracted by direct contact, airborn, waterborn and soilborn, is fast becoming obsolete, since we have learned that insects play such an important part in carrying diseases. There are six diseases which are important to the National Cuarantine Officer, - typhus fever, small pox, yellow fever, cholera, plague and leprosy. Of these, two certainly are due to the bite of an insect, viz. plague, being due to the bite of a flea, and yellow fever, due to the bite of a mosquito. Besides these diseases, it has been found that sleeping sickness, trypanasomyasis and surra are due to the bite of a fly.

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The Culex mosquito is responsible for filariasis and dengue fever. The Anopheles mosquito carries the contagion of malarial fever. Rocky Mountain Fever and Texas Fever are both due to

the bite of a tick.

The magnificient work of the British Indian Plague Commission has placed beyond a doubt that certain or the fleas carry the contagion of plague. Their experiments can be read in the Journal of Tropical Medicines. These experiments were done with foud varieties of fleas, the Loemopsylla cheopis, the common rat flea of India, the Geratophyllus fasciatus, the common rat flea of San Francisco, the Ctenopsylla felis, and the Pulex irritans, The experiments done with the first flea were all successful. Only two experiments were done with the second flea and both were successful. with the Ctenopsylla felis they were not able to transmit plague.

We have been studying the rat fleas of San Francisco and have examined about 15,000 and have found that while the Indian Rat flea is very common, the Ceratophyllus fasciatus predominates, and as both the experiments with the Ceratophyllus fasciatus were succossful in India there is no doubt that it may be as active in transmitting the disease in San Francisco as the Indian rat flea

is in India.

Thile studying the rat fleas, we also thought it would be interesting to study about the fleas of the smaller animals found within the boundary line of San Francisco, To have therefore had an opportunity to search for fleas on the large skunk (Mephitis occidentalis), one variety of the mole (the Scapanus californicus), the pocket gopher (Thomomys bottae), the weasle (Putorius manthogenes), the common field mice (Microtus californious), the ground squirrel (the Citellus beecheyi), a variety of cotton-tail (Lepus bachmanii), and besides these have examined fleas from sparrow's nests and from the nest of the brush rat (Neotoma) and about 3000 apecimens of fleas from man. Te have found in all something like 22 different species of fleas, some of them entirely new; some of which have been reported before from the United States and some from British Columbia. The Microtus alone has furnished four distinct varioties, the Ceratophyllus telchnum, a Hystrichopsylla, which is probably the dippei; an Odontosyllus, probably identical with the charlettensis and a Ceratophyllus which is entirely new. The sperrow's nests furnished a variety which resembles the Ceratophyllus gallinae, but is a distinct species and has been described in the Entomological News, under the name of Ceratophyllus niger. From the mole a flea was obtained representing a new genus, which af will also appear in the Entomological News, under the name of Corypsylla ornatus.

The ground squirrel has furnished constantly two other varieties of fleas, the Ceratophyllus acutus, and the Hoplopsyllus anomalus. From the rabbit we have gotten a Hoplopsyllus and a Spilopsyllus which I am at present identifying. The brush rat's nest furnishes four varieties of fleas, the Hystrichopsylla dippei, the Ceratophyllus sexdentatus and one specimen of the Odontopsyllus

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charlottensis and one female specimen of a flea with a double spermatheca, which I am unable to identify; but which I believe is new. From the weasle we have gotten the Ceratophyllus wagneri. gopher has furnished constantly the Ceratophyllus ignotus, while on the skunk we have not found any characteristic fleas, but have found as a constant parasite, the Pulex irritans, or ordinary human flea. As an interesting fact, we have found on several occasions, the squirrel fleas on the rats. This is particularly interesting on account of the finding of plague among the squirrels in certain parts of California.

The Doctor then advised persons collecting fleas, to keep all those taken from any one animal separate, with the proper data

attached.

Dr. Fox stated that he was depositing types and named

specimens in the California Academy of Sciences.

Mr. Marhorn stated that he always has a small vial or two on hand, in which he places the specimens and then puts it into an envelope upon which he writes the data. Flease should be preserved in 70 per cent alcohol.

im. Fuchs have an outline of the work done at Berkeley in

the fight against peats.

Hr. F. ". Nunermacher talked about his trip to Arizona,

also the Coleoptera from Goldfield, Nevada.

Mr. Marhorn exhibited a collection of coccidae and Mucrossus or white-fly.

in. James Cottle a number of Hemileuca electra from San

Diego. Ifr. Munermacher a box of Orthoptera taken in Arizona, also two boxes of Coccinellidae.

Il r. F. I. Fillians a box of Noths, Butterflies and Grasshoppers.

Mr. Talter Topp the Denton Bro's mounts for Lepidoptera. ir. Percy Baumberger a box of Hymenoptera and another of Parasitica,

Refreshments were served. Adjournment.

F. E. Blaisdell Sr., Sec.

The 31st regular quarterly meeting was held on the evening of Feb. 37th, 1903, at Thompson's Cafe, O'Farrell St., Sen Francisco. President Van Dyke in the Chair. Minutes of the preceding meeting were read and approved.

The following members were present:-

Pres. Van Dyke J. O. Haguenin Percy Baumberger F. I. Blaisdell, Sr. Walter Topp James Cottle

J. G. Grundel F. I. Filliams Leon Muiner

F. T. Nunenmacher Chas. Fucks Hiss Julia Tright Tia. H. Lange

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Ore managed to a look of Denton Gro's Hounts for Lepidoptera in the Forest Sampler at Arizona, Autournment.

Refrechrents were sorved, Autournment. F. H. Blatadell Sr., Sec. The first required markerly meeting was held on the evening of Remoil St. Sen Pronounce too. O'Parcoll St. Sen Pronounce too. O'Parcoll St. Sen Pronounce too. O'Parcoll St. Sen Pronounce assitut too. of the pronounce. End forting rear age were present; Press Van Dike "J. G. Grundel. F. ". Wunommaohor dina, Fucha Hitem Juliu Tight Til H. Lango Porcy Ban bertal Car Carlors
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The following guests were present:-Dr. carroll Fox L. R. Reynolds
Mrs. J. Cottle Mrs. Leon Muiner M. B. Mitzmain Mrs. F. H. Blais-Mrs. Leon Muiner The Treasuser's report was then read. dell Dr. Carroll Fox, L. R. Reynolds and Maurice B. Mitzman

were elected to membership.

Pres. Van Dyke asked the members intending to read papers to send in titles before hand so that the program could be arranged before the meeting. A copy should also be given to the Secretary to be filed in the proceedings.

Mr. F. W. Munermacher then read the following epitome on

the progress of the study of the Coccinellidae.

Mr. G. R. Gratch gives in his Revision of the coocinellidae of 1870, 137 genera and 1341 species. In his Revision of the U.S. of 1874, 3 more genera are added and 14 species. From 1885 to 1905, Weise adds 18 genera, 326 species, and 61 varieties. From 1892 to 1896, Blackburn of Australia in his Rev. I, adds 7 genera, 93 species and 7 varieties. In 1895, Dr. George Horn added one genus and 30 species. In 1896 (?) G. Lewis added 3 genera, and 18 species, all from Japan. From 1899 to 1908, Col. Thos. L. Casey added 18 genera and 336 species, also 10 varieties. From 1903 to 1908 Mr. genera added one genus, 3 species and 3 varieties. In 1905, Mr. C. Schaeffer added 3 species. In 1905 Prof. H. F. Tickham added one species. In 1907, Dr. A. Sicard added one genus, 42 species, and 5 varieties. In 1889 Dr. F. E. Blaisdell added one species. Prof. H. C. Fall added 10 species. Mr. A. M. Lea of Tasmania added 4 genera, 20 species and several varieties. The grand total being 192 genera, 2028 species and 85 varieties. To describe the above it took 139 authors and besides the above Mr. Gorham described several,

Mr. J. G. Grundel reported his recent visit to the Tahiti Islands, a few Coleoptera, four species of Coccidae and the Thitefly. Three species of Coccinellidae, one being coccinella abdominalis, and some other beneficial species, were among those taken. The cocoa-nut "eeire is very injurious there. A small ant seemed to be very lestructive to other insects of the Islands. Coccidae were very abundant on plants around the settlements, especially on the imported plants. One species of Catocala and a large Sphinx, a large spider is abundant there. It feeds on mosquitoes. A small Lizard was also busy feeding on Insects. In the dense forests he found very few things, oven after careful search; a few noths and

a Satymus?. There were originally 550 species of Natuve plants. Now

there are over 2000 with the introduced species. In. Marhorn exhibited the scales brought back by Mr.

A discussion on the distribution of insects by the Natives Grundel and courierce then followed. The discussion was paraloularly concerned in such insects as the Coccidae and Healy-bugs.

Mr. L. R. Reynolds stated that exhaustive collecting is

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a good idea, as the native fanua of most Islands is being rapidly destroyed, or obscured by the introduction of other species.

Dr. Carroll Fox stated that species of Sarcopsyllidae were parasitic on the Flea, 6 of these mite-like organisms were found on a single individual. These parasites are so microscopic that 20 or 30 could easily get on a single flea.

Dr. Van Dyke stated that the early stages occur in rats' nests and that they run over the ground in the larva stage, and

finally get on their hosts.

Mr. Ehrhorn asked the members to collect Myriopoda and turn them over to him to be forwarded to Dr. Sylvester, who is an European specialist on the order.

Dr. Blaisdell reported that his monograph on the Eleodiini of the U. S., would soon be issued, as Bulletin No. 63 of the U. S. National Museum, 519 pages, 13 plates and 8 text figures and

that it had been 8 years in proparation.

Eschscholtz's Atlas was exhibited by Pres. Van Dyke. Mr. Nunenmacher exhibited a box of Lepidoptera from Nevada.

Mr. Grundel a lot of Coccoons of Attacus ceanothi and

cecropia, many were hybrids.

Mr. L. E. Ricksecher's lists of Coleoptera and Lepidoptera collected at San Diego is appended for those who desire to obtain many good things.

Refreshments and adjournment.

F. E. Blaisdell, Sec.

LIST of COLEOPTERA. L. H. RICKSHCKER, SAN DIEGO, Mar. 1909

27 Cicindela latesignata	.10	5432	Canthon simplex	.03
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33a "oregona	.00	5859	Cyclocephala longula	.10
4 Ic " signoidea	.05	5865	" dimidiata	. 05
35 " hirticollis	.05	5069	Ligyrus gibbosus	. 03
52 " Gabbii	.15	5920	Cremastochilus Schaunin	.25
63 " haemorrhagica	.10	6151	Crossidius testaceus	.15
63a " var. Pacifica	.10	6326	Leptura 6-spilota	.15
139 Galosoma semilaeve		65.00	Saxinis sincia	.05
517 Pterostichus Isabellae	.05	6627	Cryptocephalus s urcus	.05
1006 Chilaenius cumatilis	.08	6743	Chrysochus pobaltinus	.03
2055 Aleochara binaculata	.03	7063	Microrhopala rulvolineat	30.
Dactylosterman cacti	.10	7105	Murymetopon convexicolie	.05
2060 Maseochara valida	.05	7191	Emmenastus longulus	.03
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2145 Belonuchus ephippiatus	.05	7348	Microschatia inaequalis	.05
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that it had been to proparation. Sachacholts's Atlas was exhibited by Pres, Van Dyke. sheved north erespective to xed a besterind menesonegast and bus injunese amounta to anddeed to tol a leburge . The cepropia, (way were hybriday. Mr. L. E. Rickeecher's Lists of Coleopters and Lopidopters Misjdo of erissb onw eacht not behanges at aneig as te beforios ... BEHLET BOOM THEE Refreshments old allourment. LIST OF COLLEGE DIA. L. R. RICHTON SAN DIECO 102 1900 refumie noningo esad of. ver, temileingta, lo 3664 Series mivia elimnol signification eans no. oregena absortes mibiasort 1413 of. .10 6376 Leptura 6-epticta avasiling suocount Ct .05 6674 Chrysochus abattlma Elf Pterstione Isabellae 1006 Chileshim cunstills

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To members of P. C. Ent. Soc. 50, disct. on orders of ten dollars and upwards.

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